Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**1.3 Introduction to Constructions Homework**

1. Write a clear set of steps for the construction of an equilateral triangle. Use Euclid’s Proposition 1 as a guide.
2. Suppose two circles are constructed using the following instructions (you do not need to actually draw the cirlces):

Draw circle with center A, radius .

Draw circle with center C, radius

Under what conditions do the circles have

1. one point in common?
2. no points in common?
3. two points in common?
4. more than two points in common?